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FIG.1

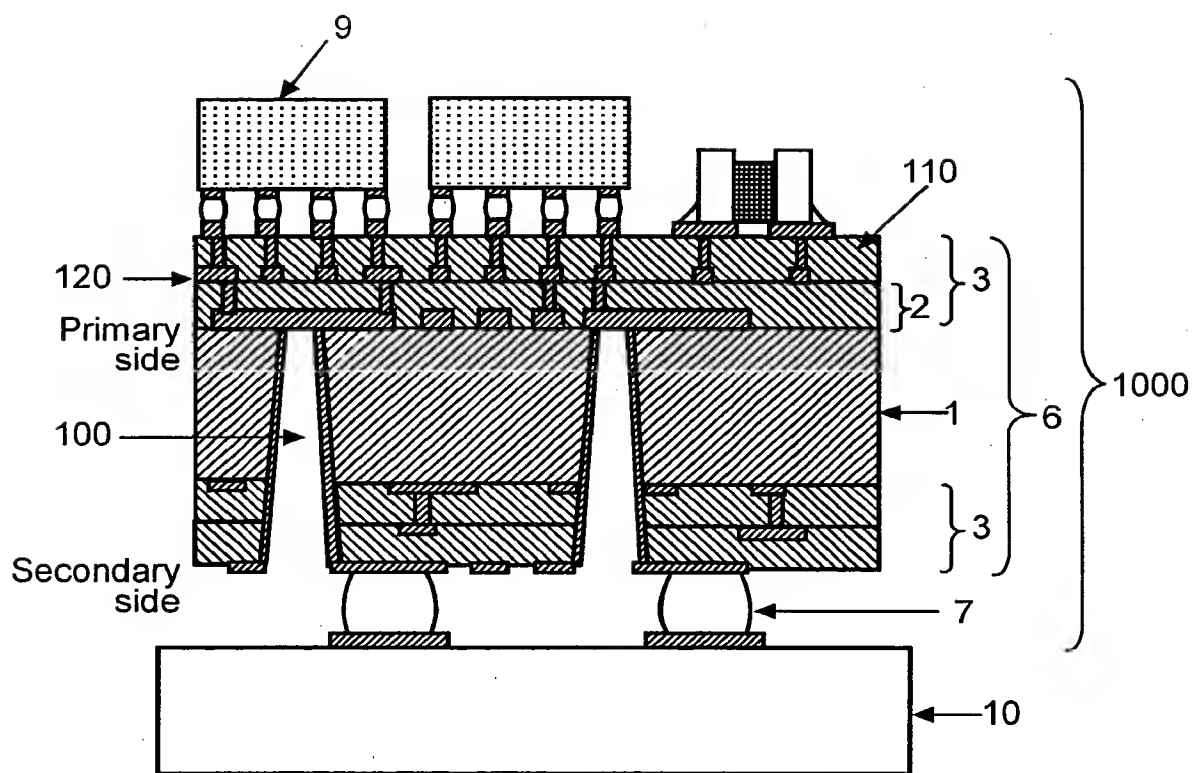


FIG.2

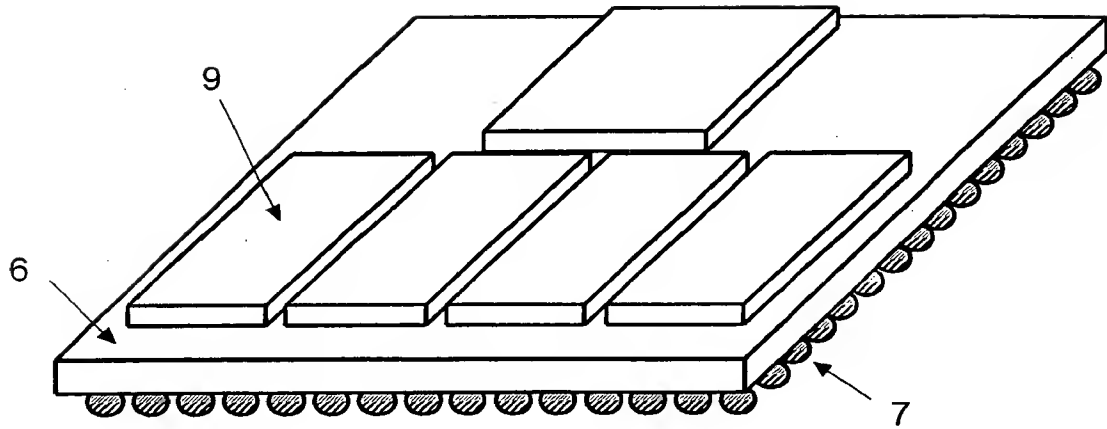
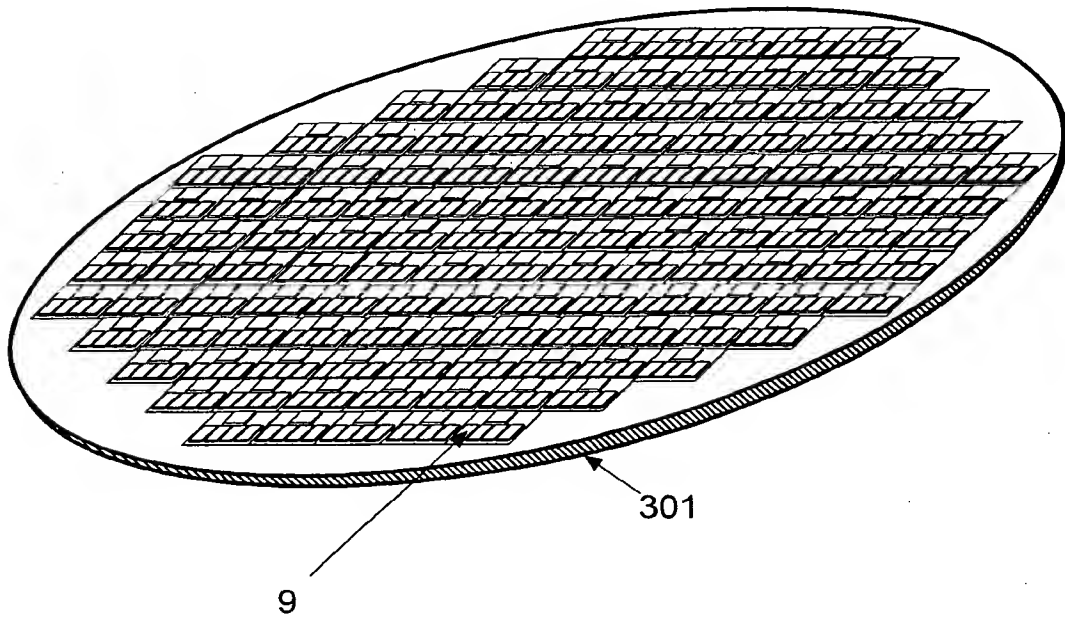


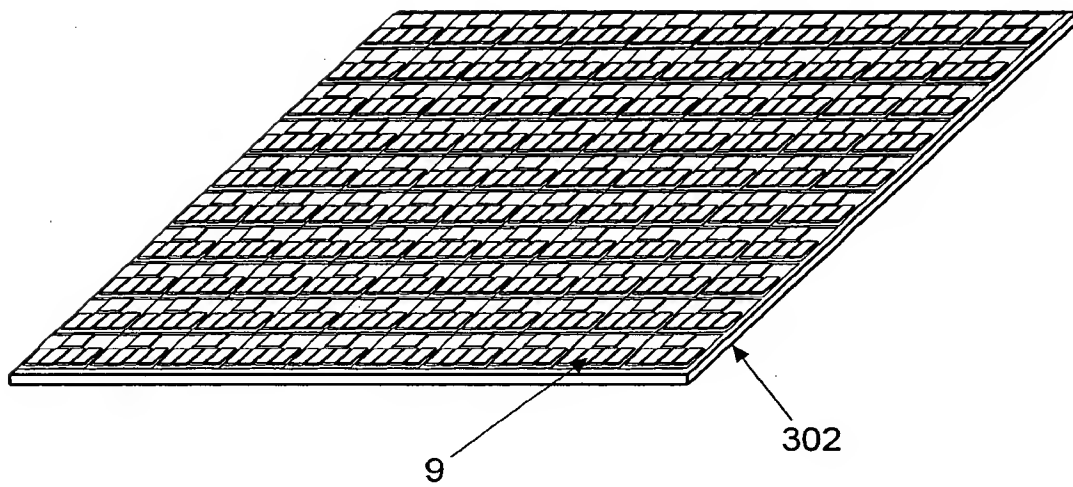
FIG.3



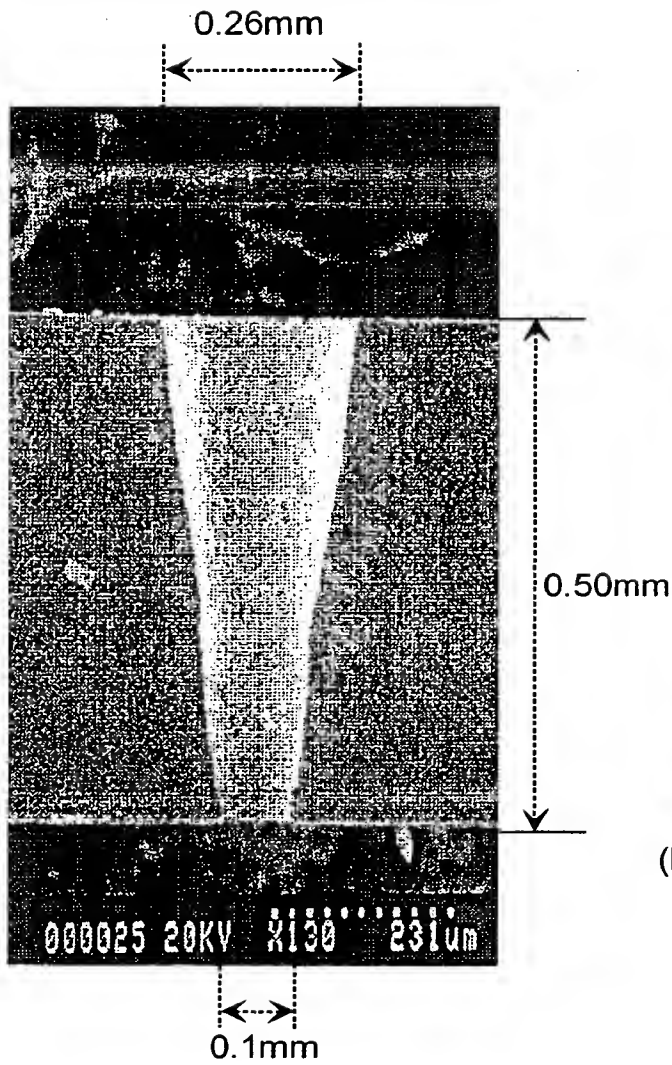
0000175.113001

FIG. 4

FIG.4



**FIG.5**



(a) Non-alkali glass by sand blasting

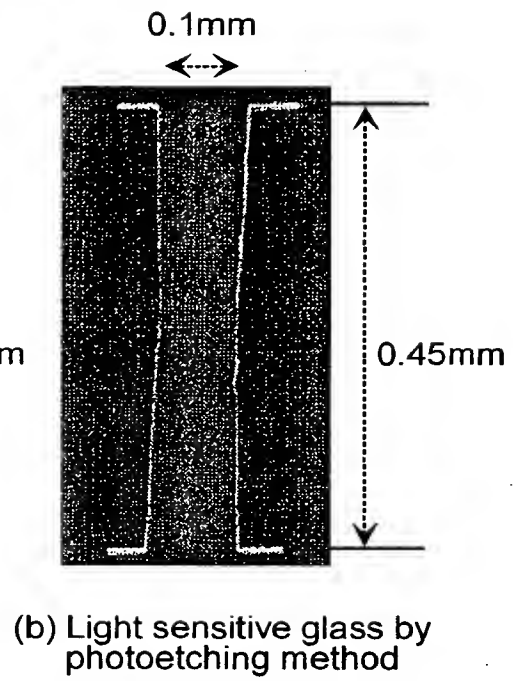


FIG.6

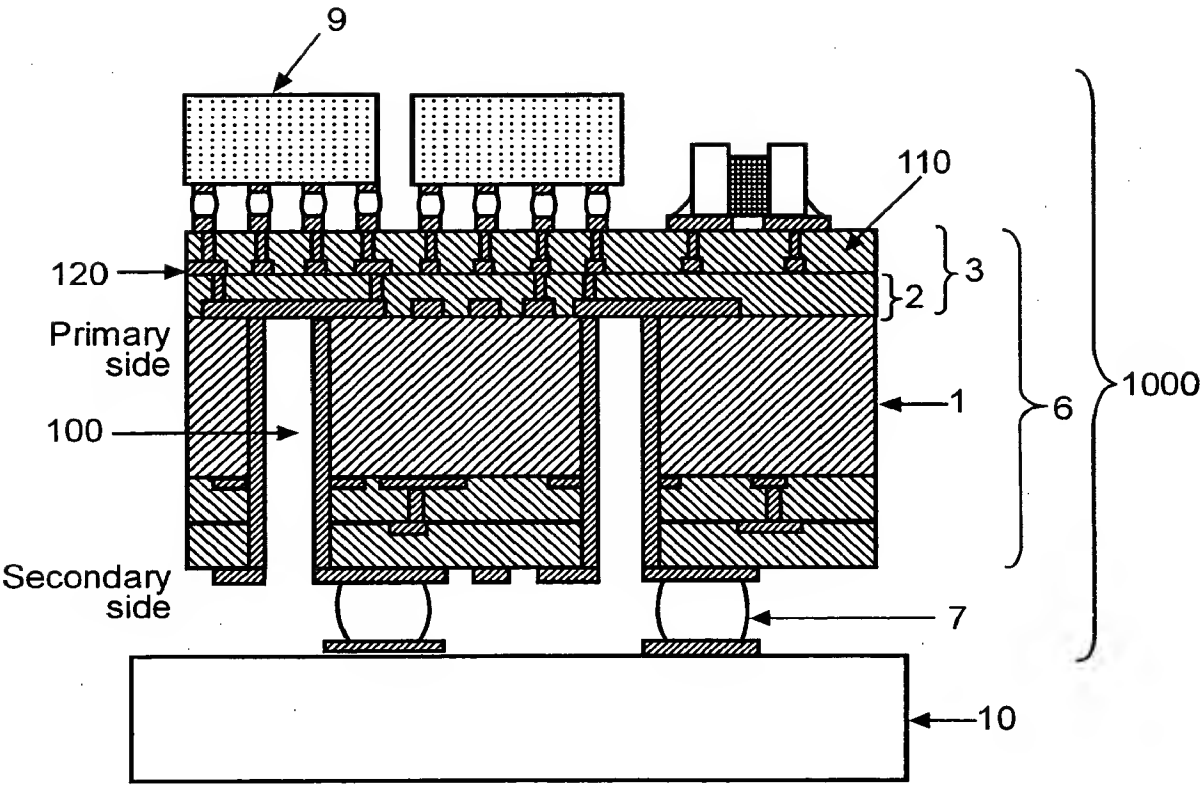
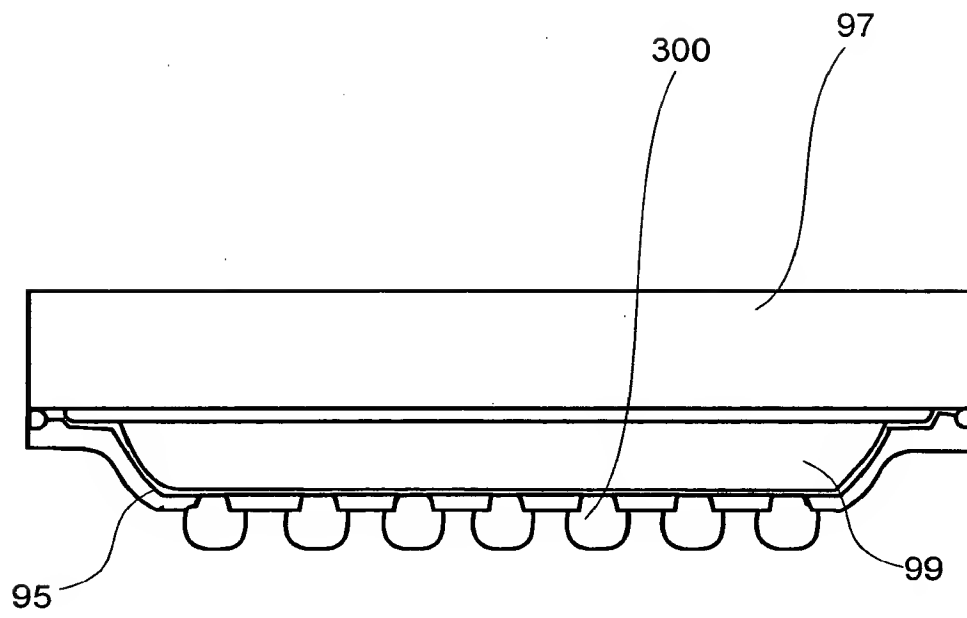


FIG.7



130611 3272000

FIG.8

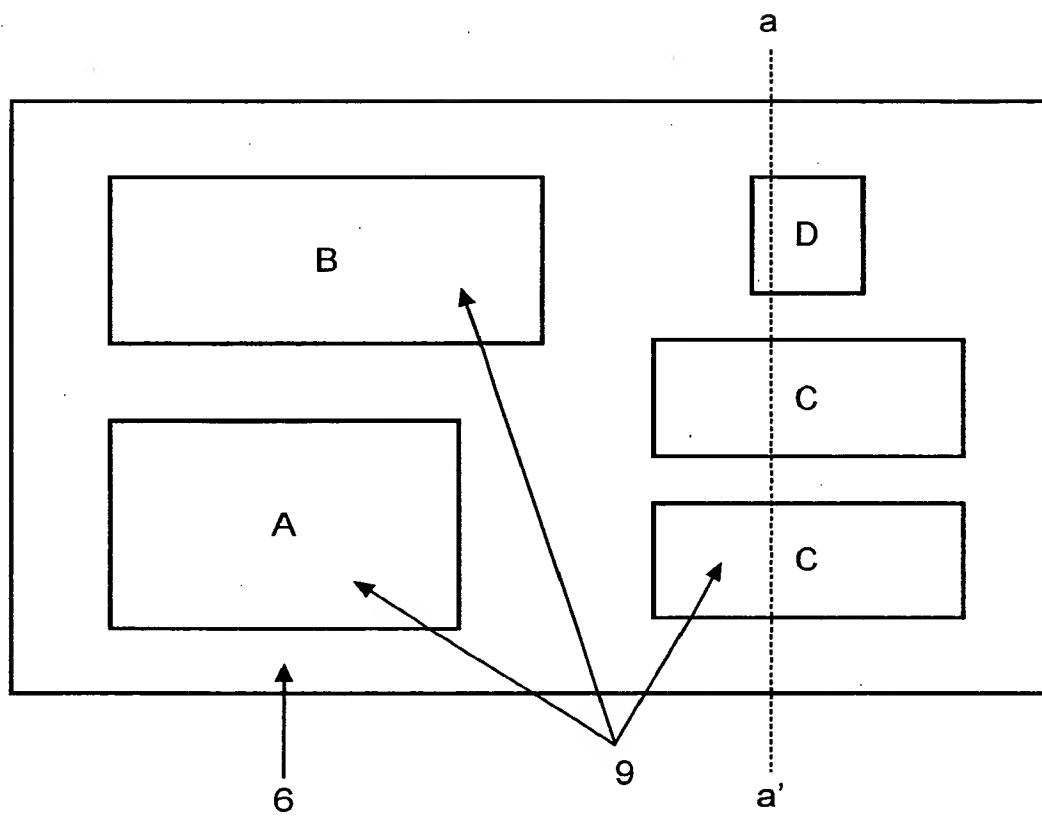




FIG.9

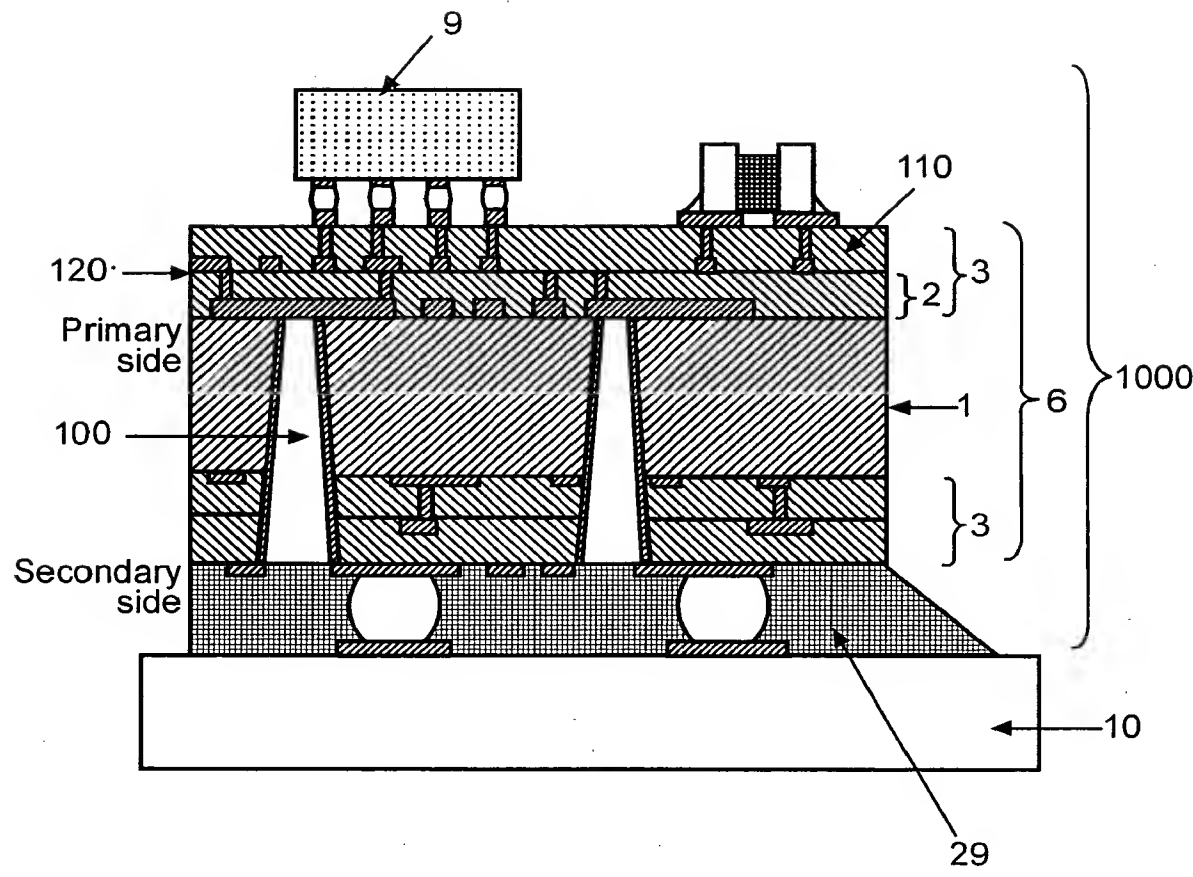


FIG. 9

# FIG.10

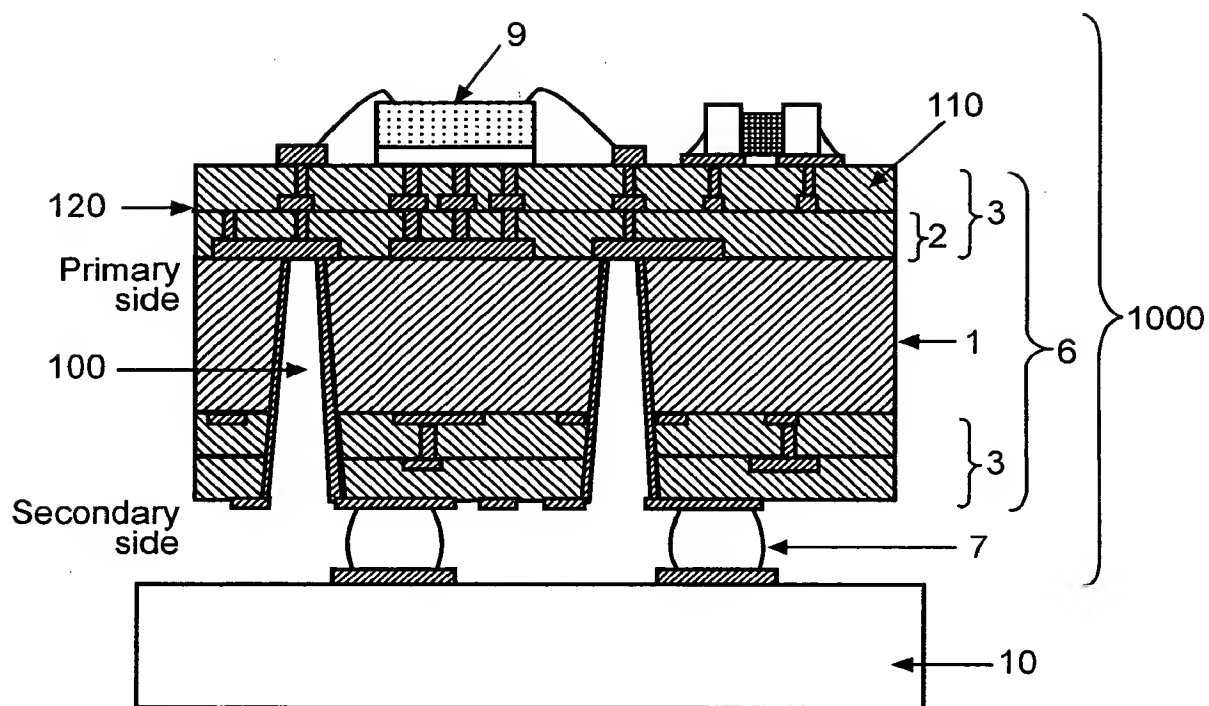


FIG. 10

FIG.11

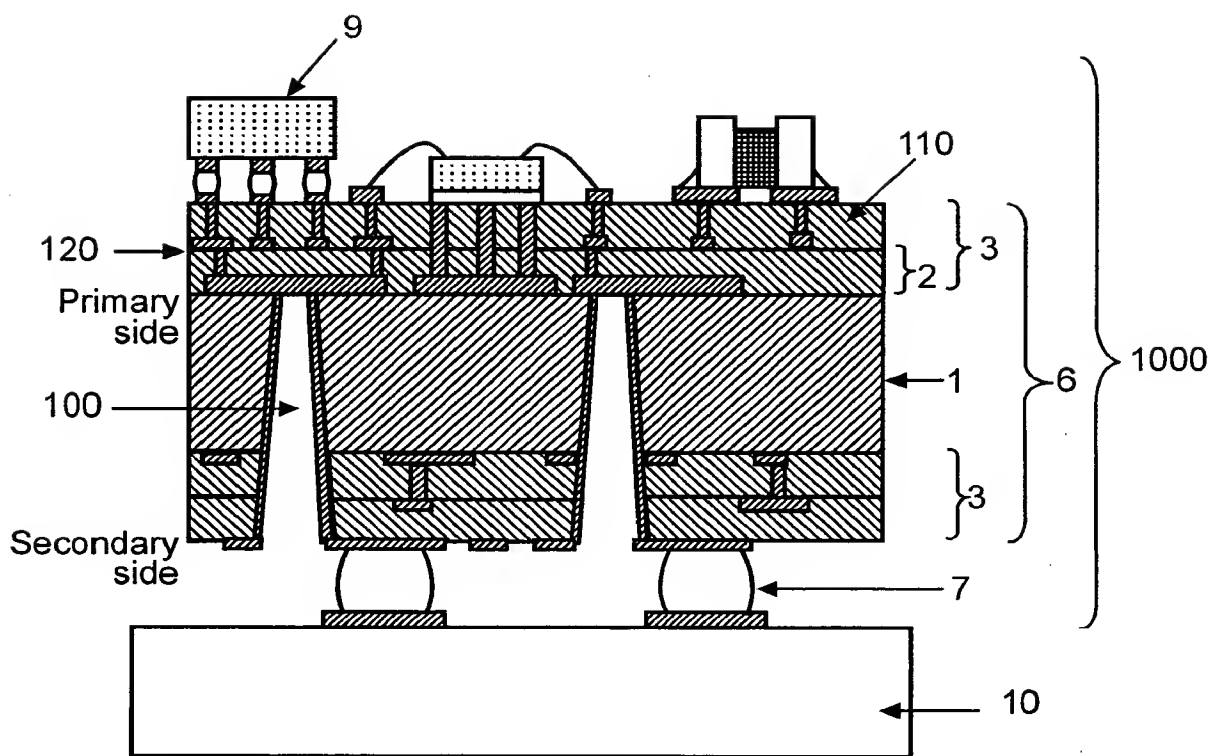


FIG.12

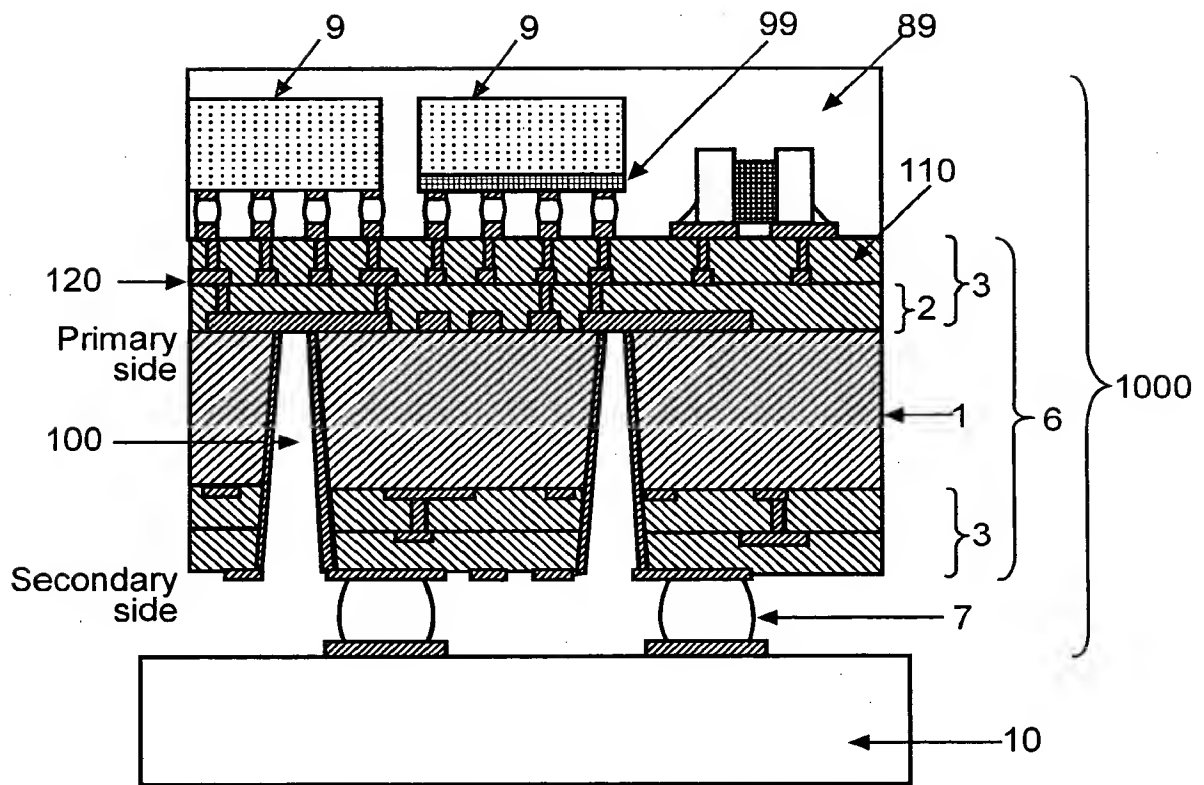
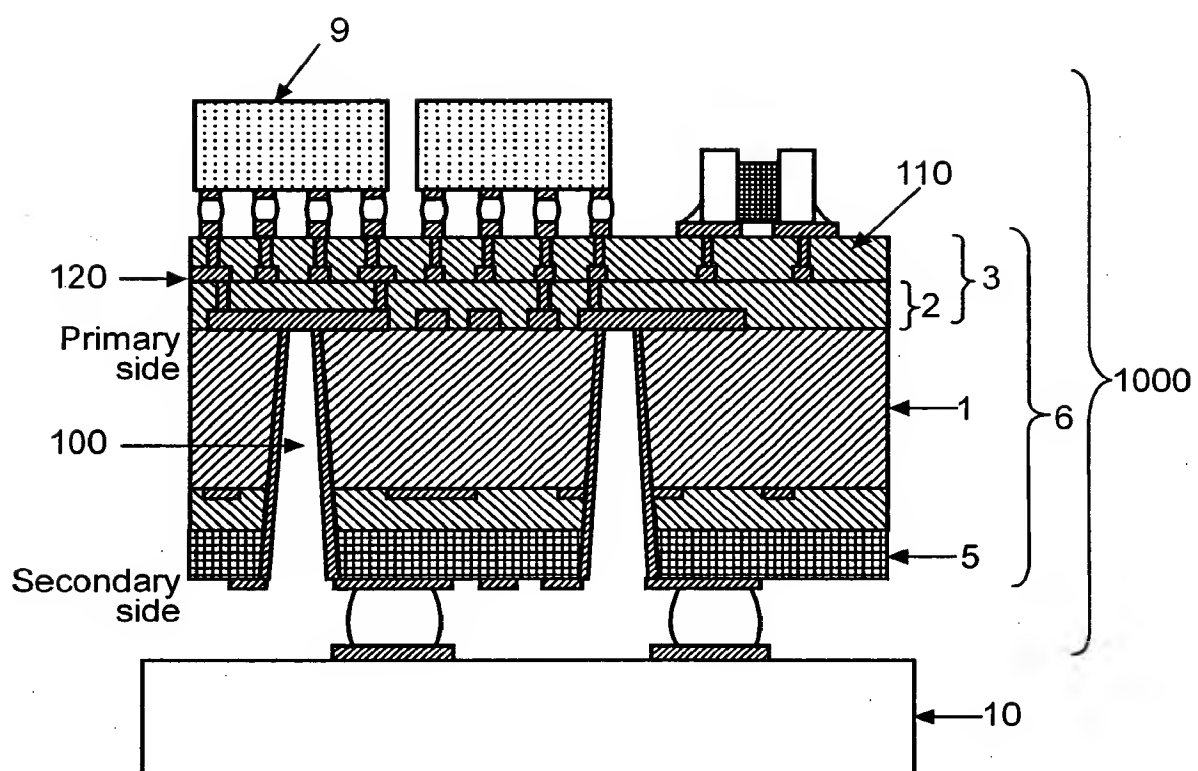
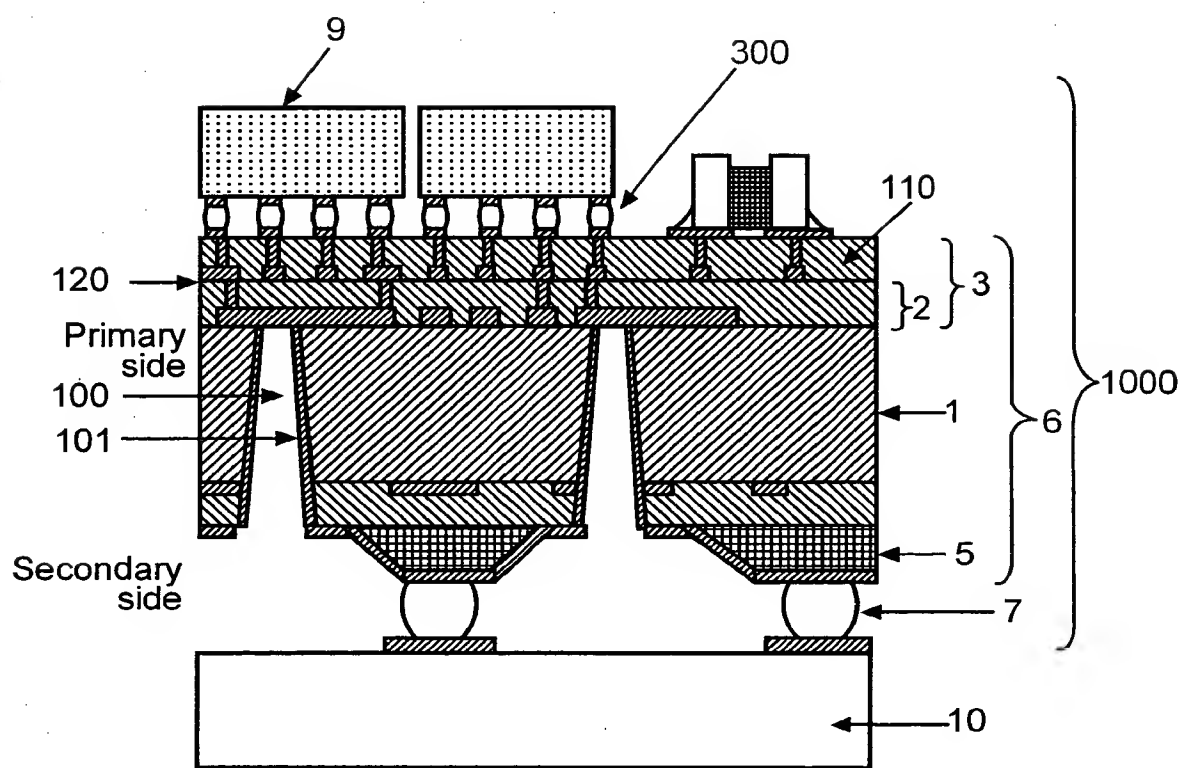


FIG. 13

FIG.13



# FIG.14



# FIG.15

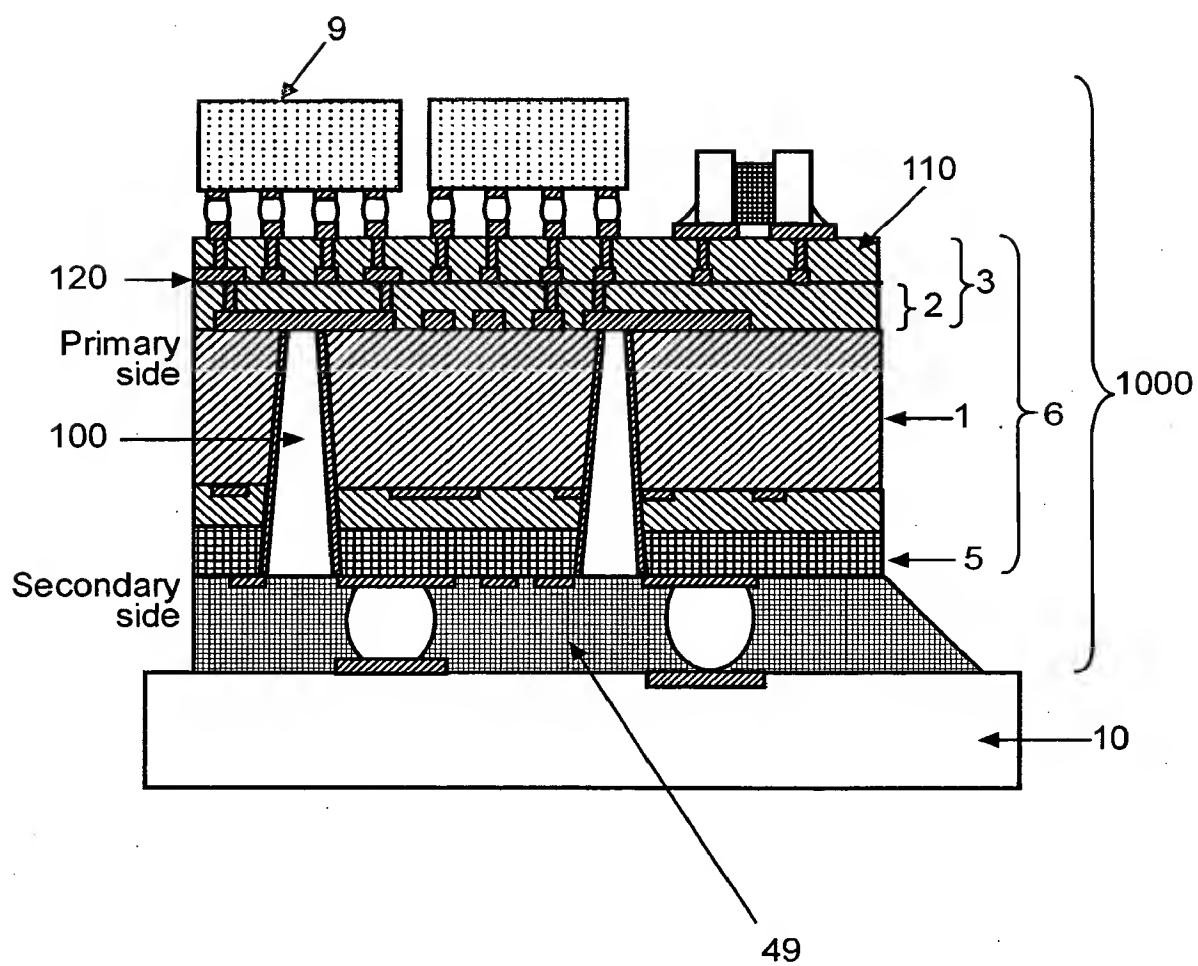
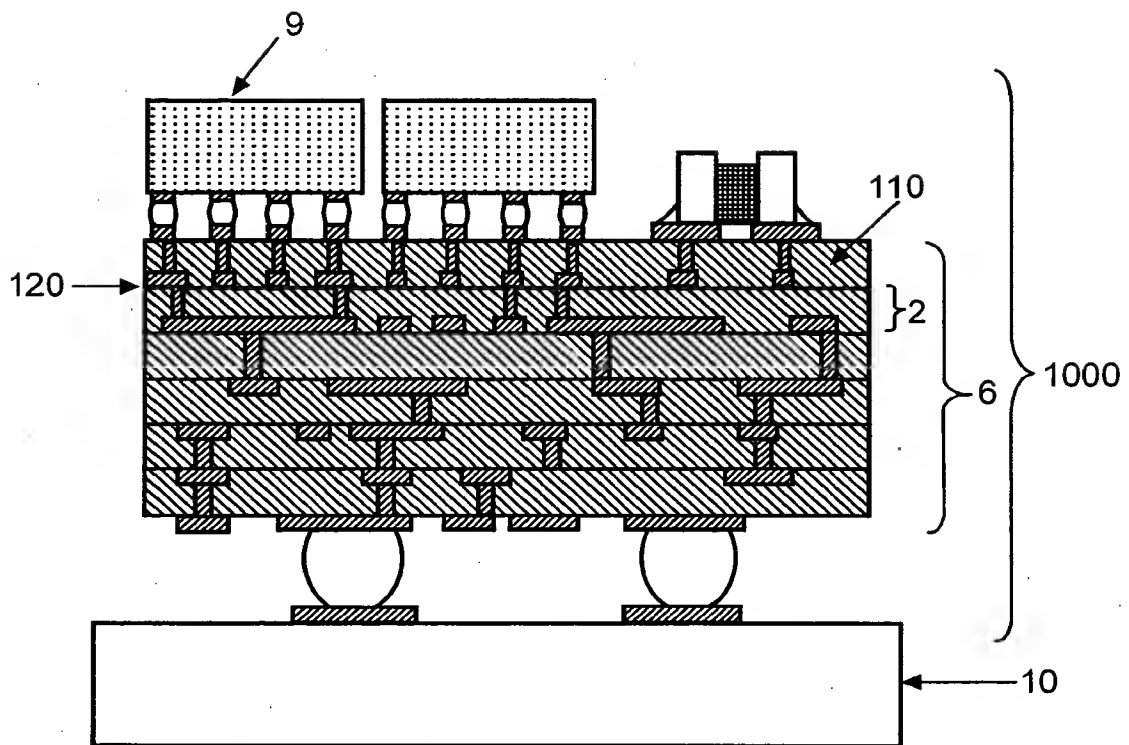


FIG.16





**FIG.17**

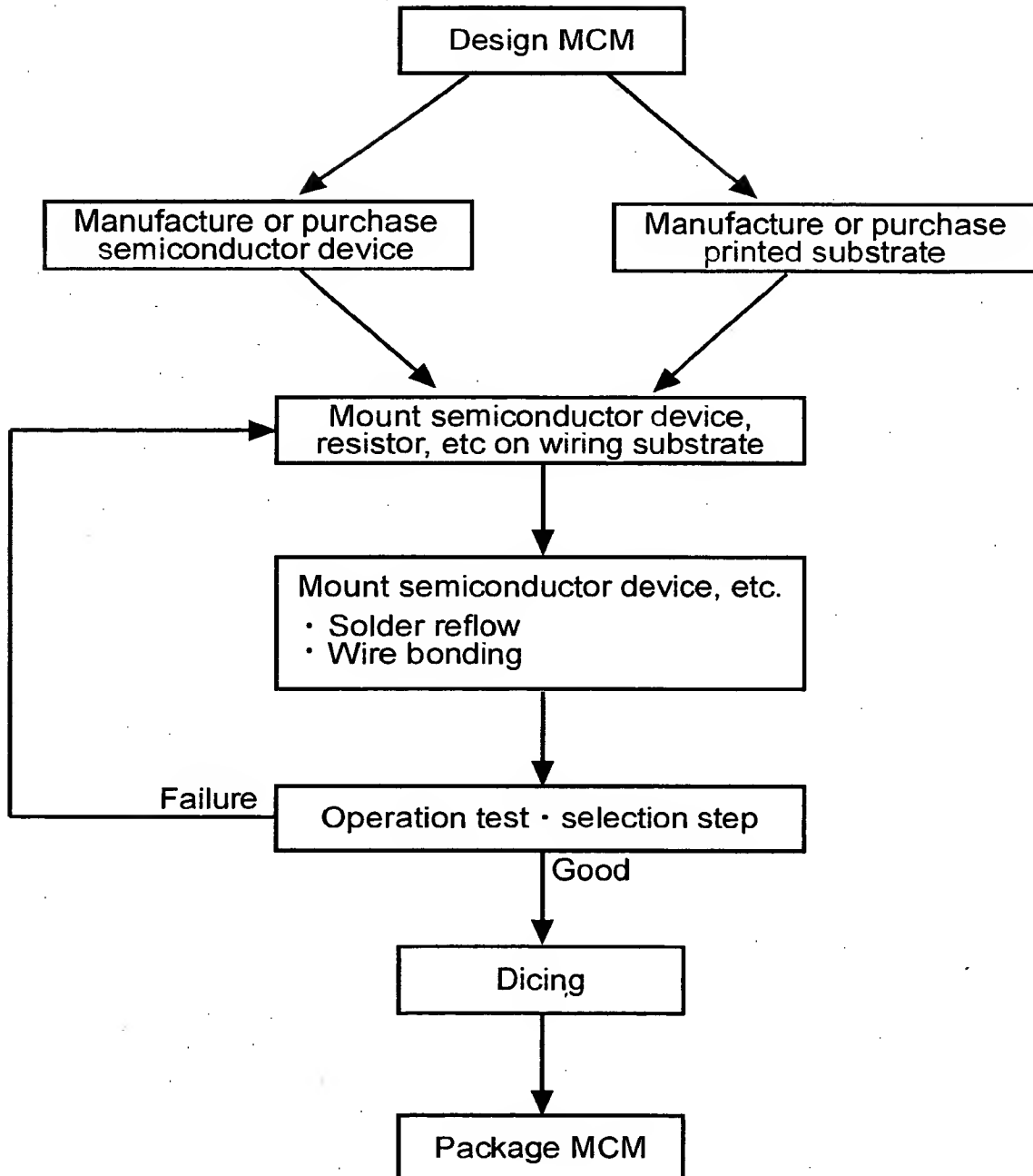


FIG. 17

**FIG.18**

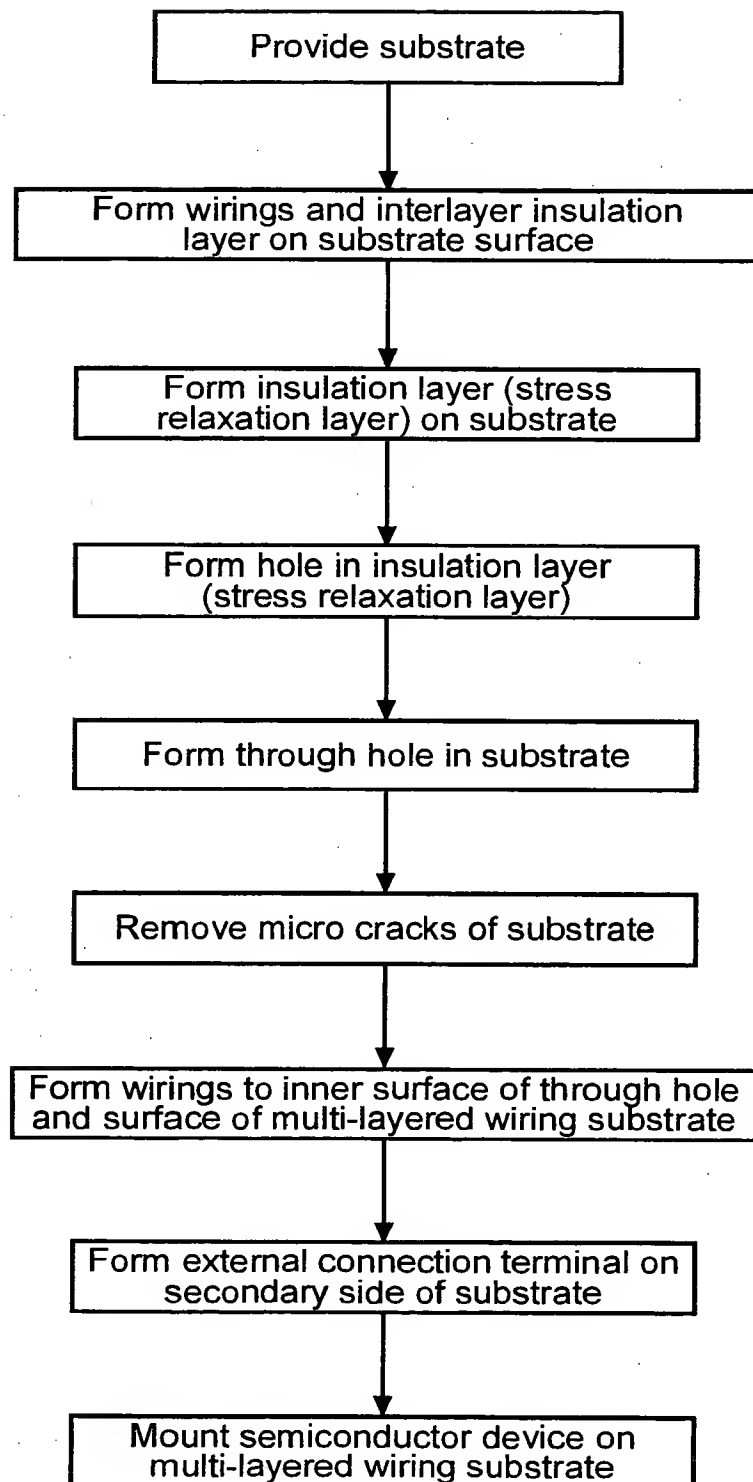


FIG.19

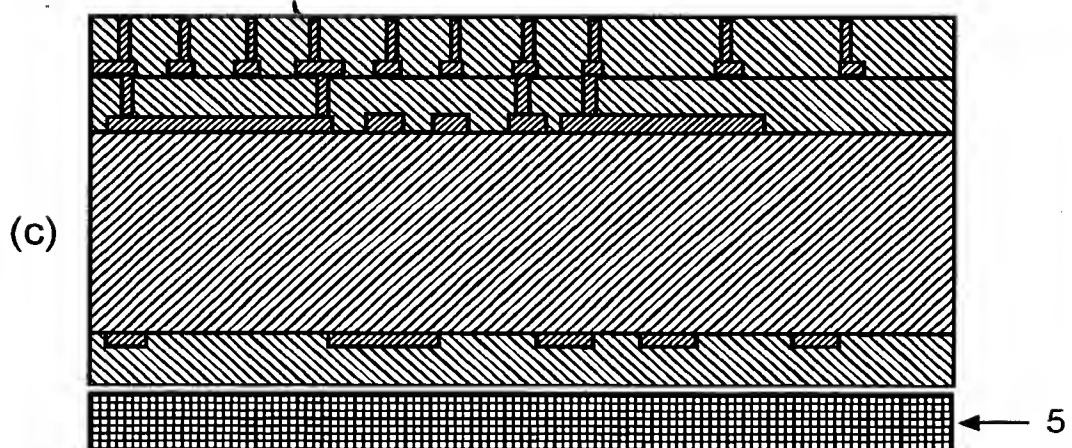
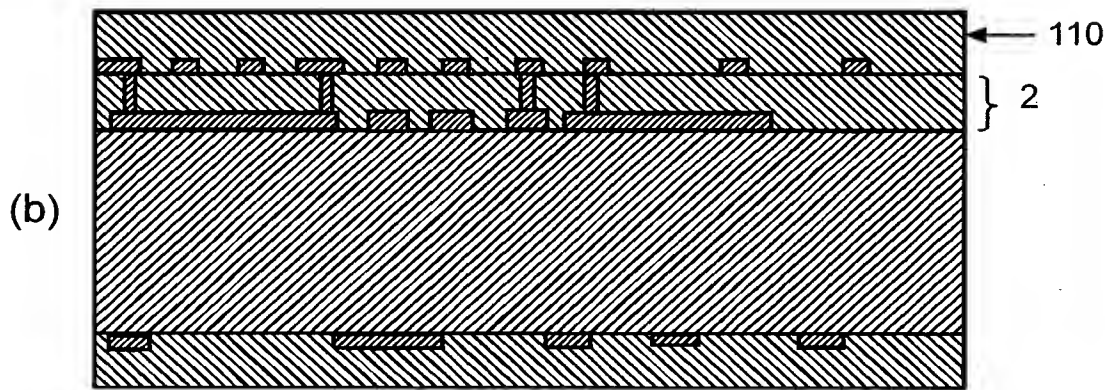
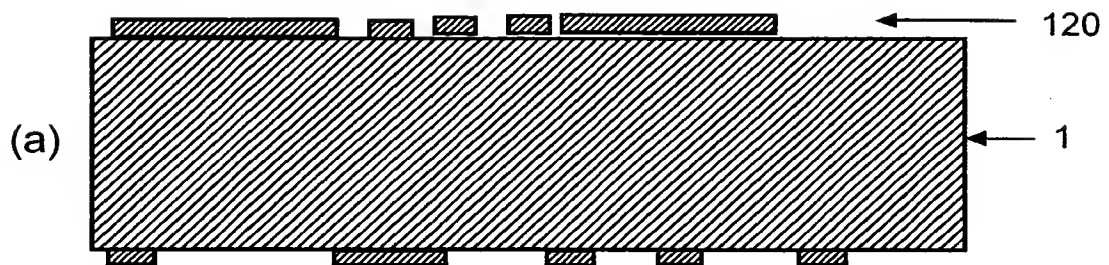
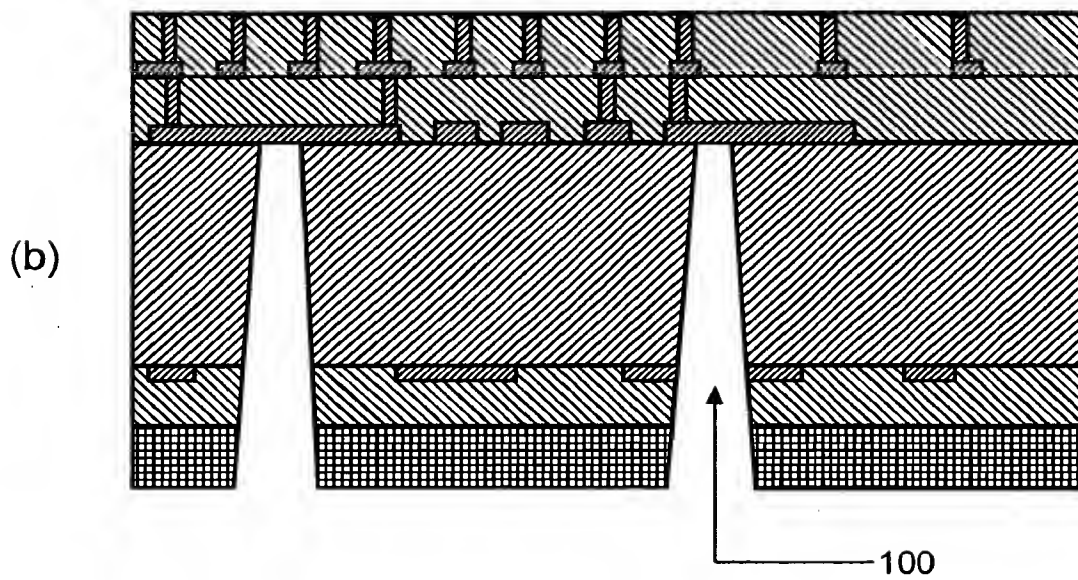
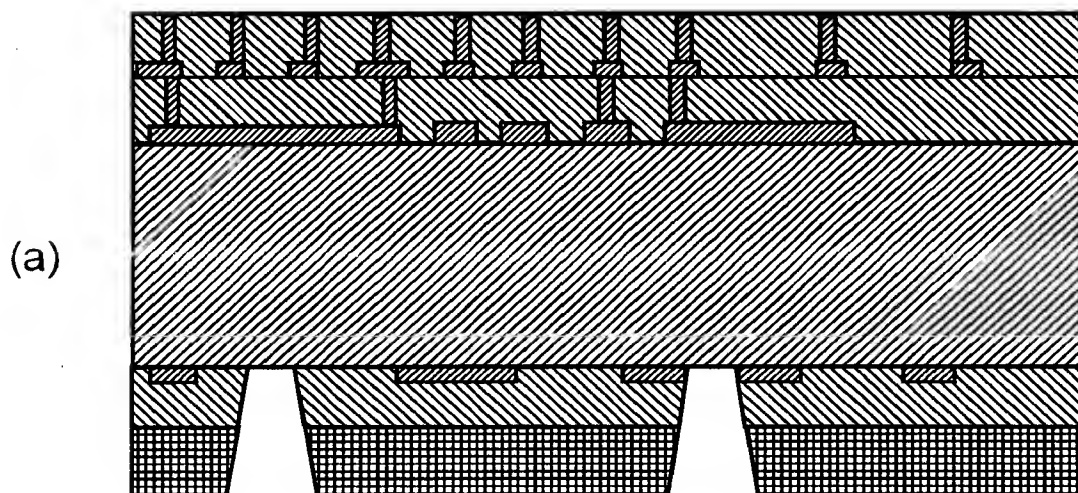
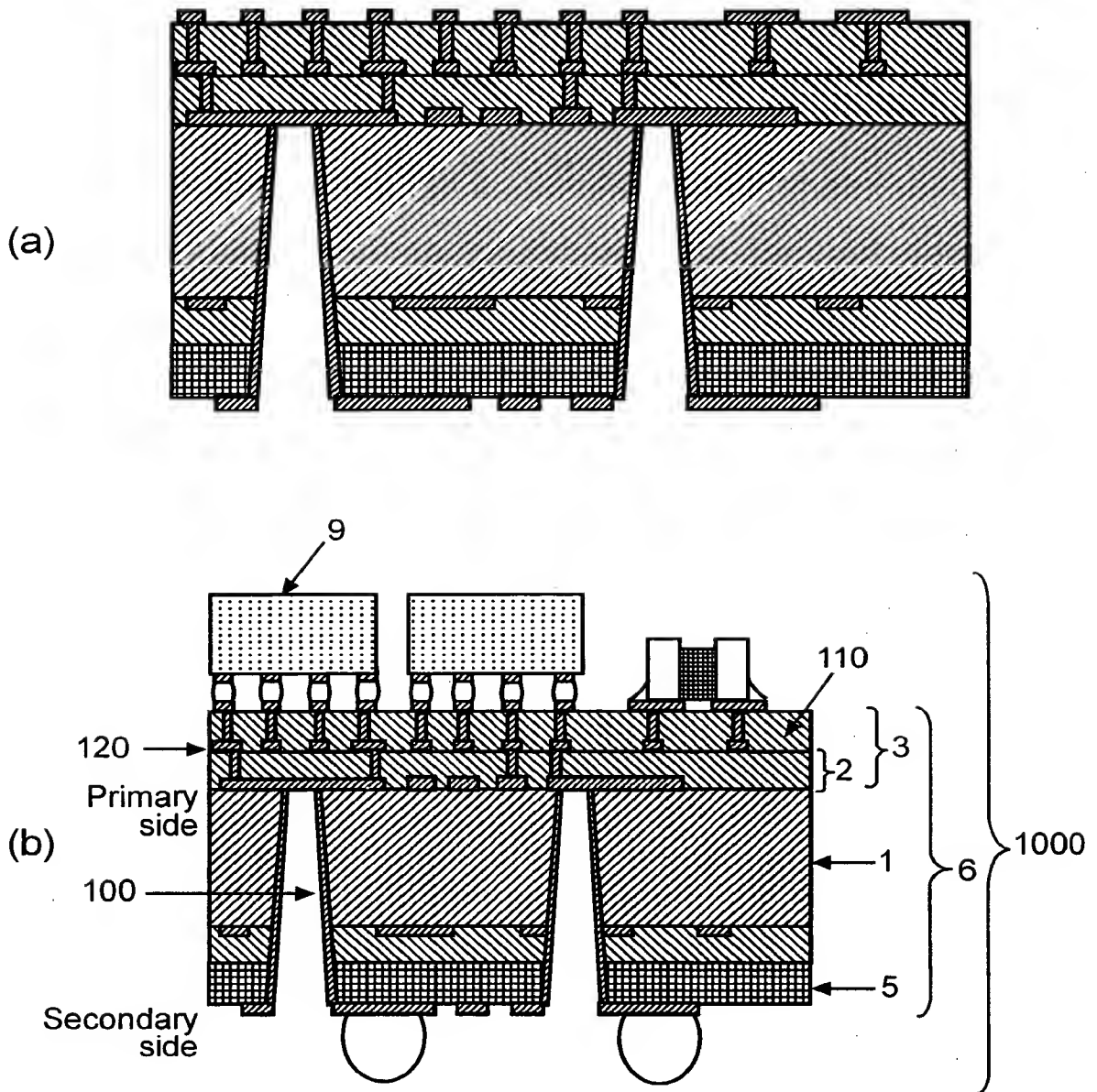


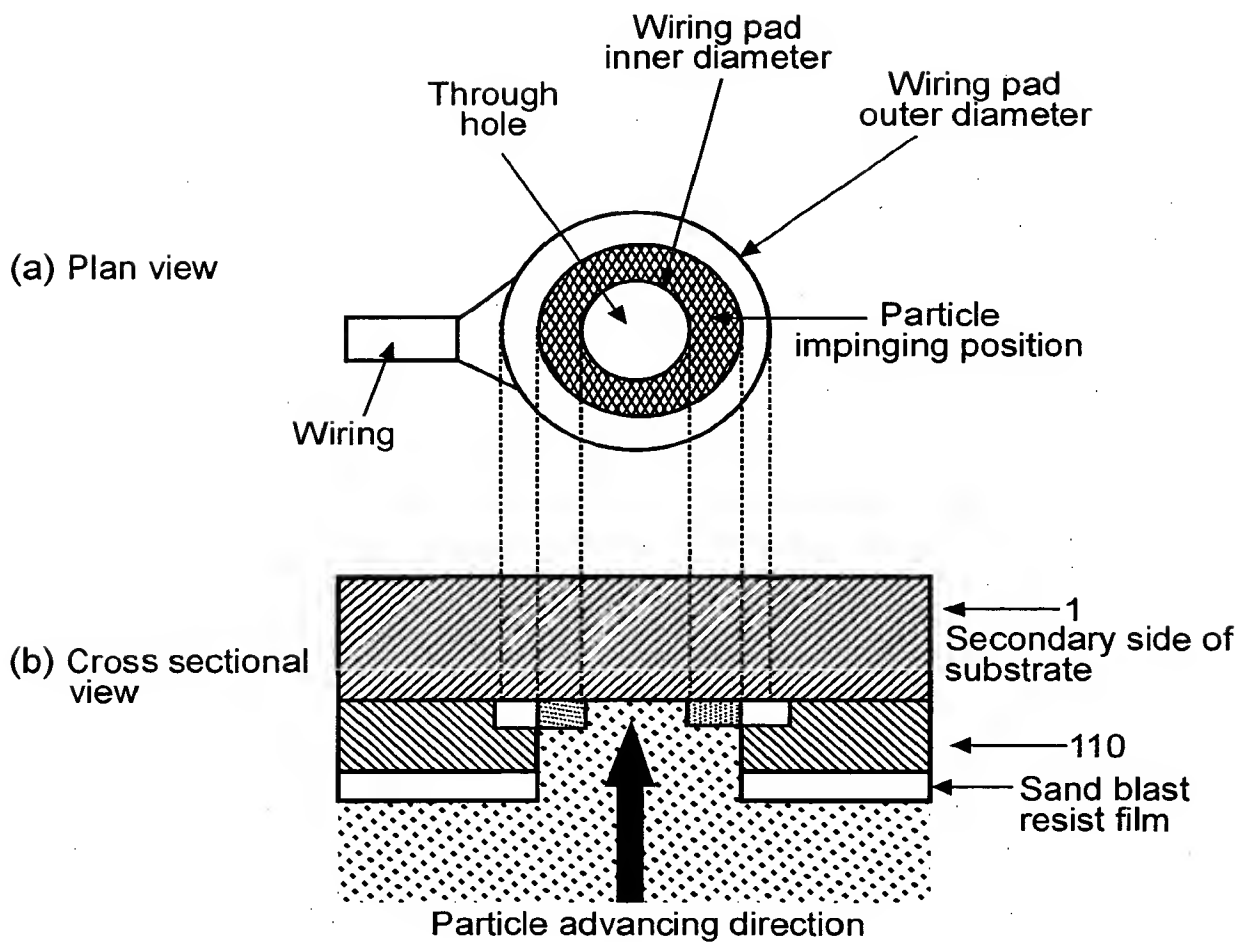
FIG.20



# FIG.21



**FIG.22**



**FIG.23**

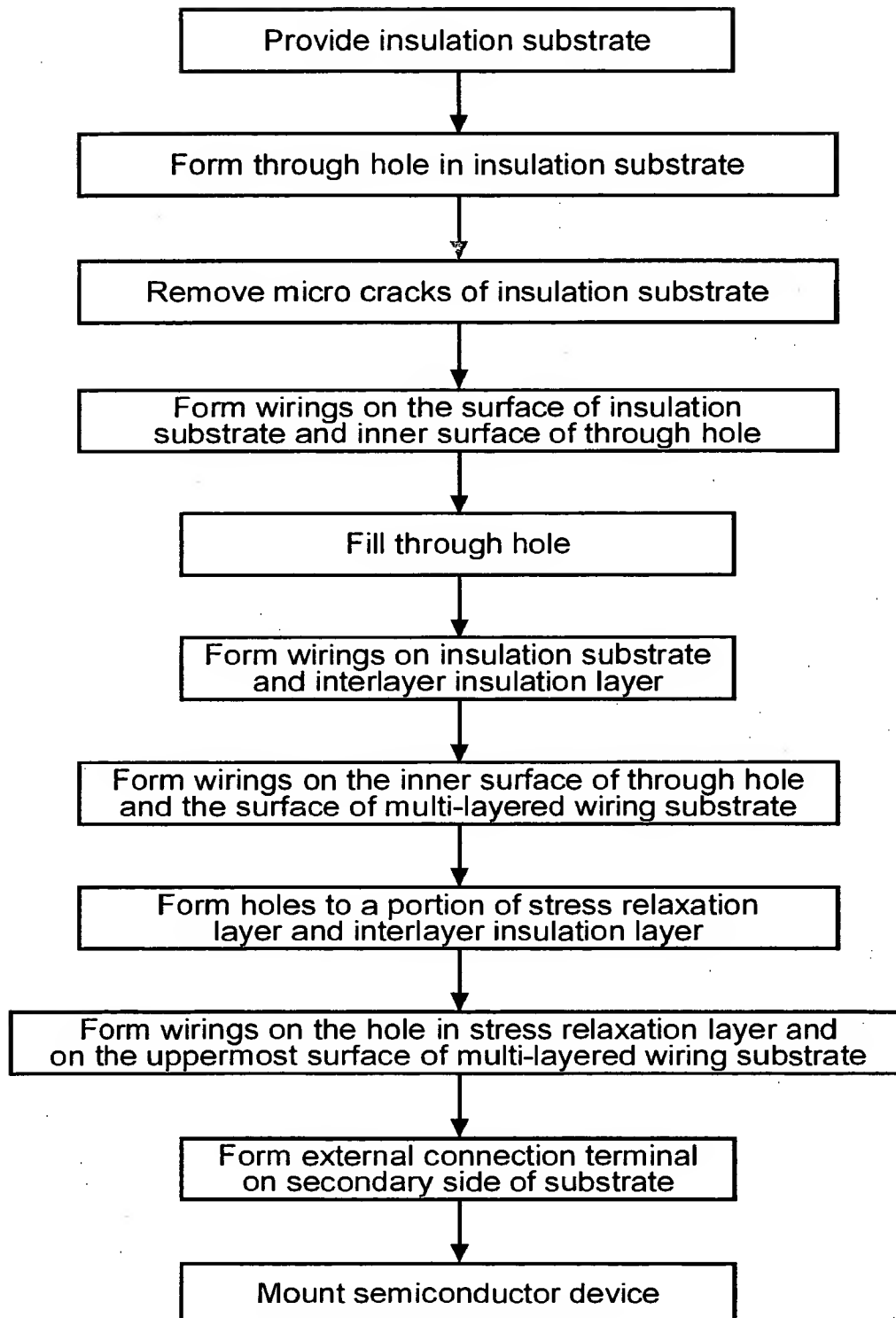
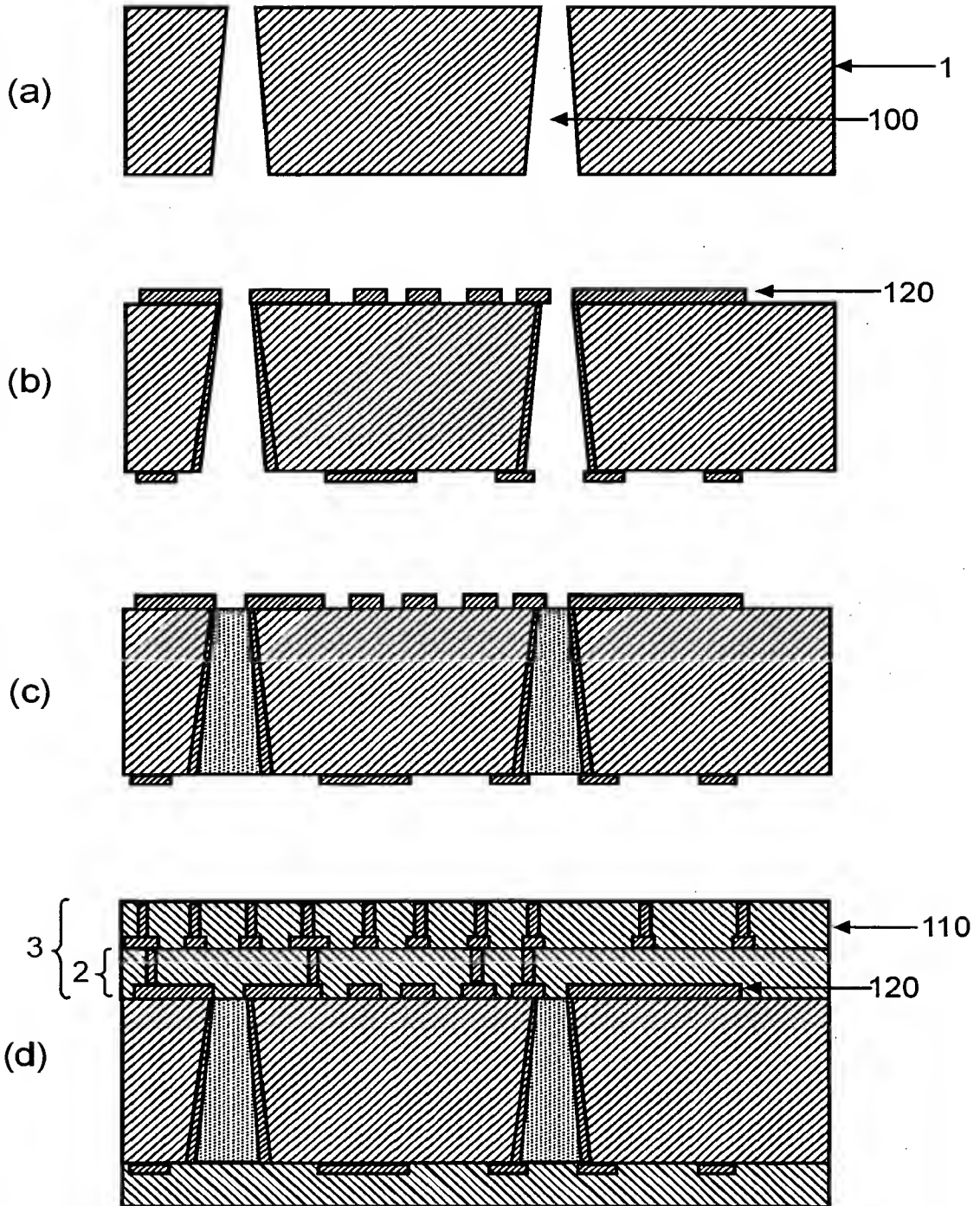


FIG.24





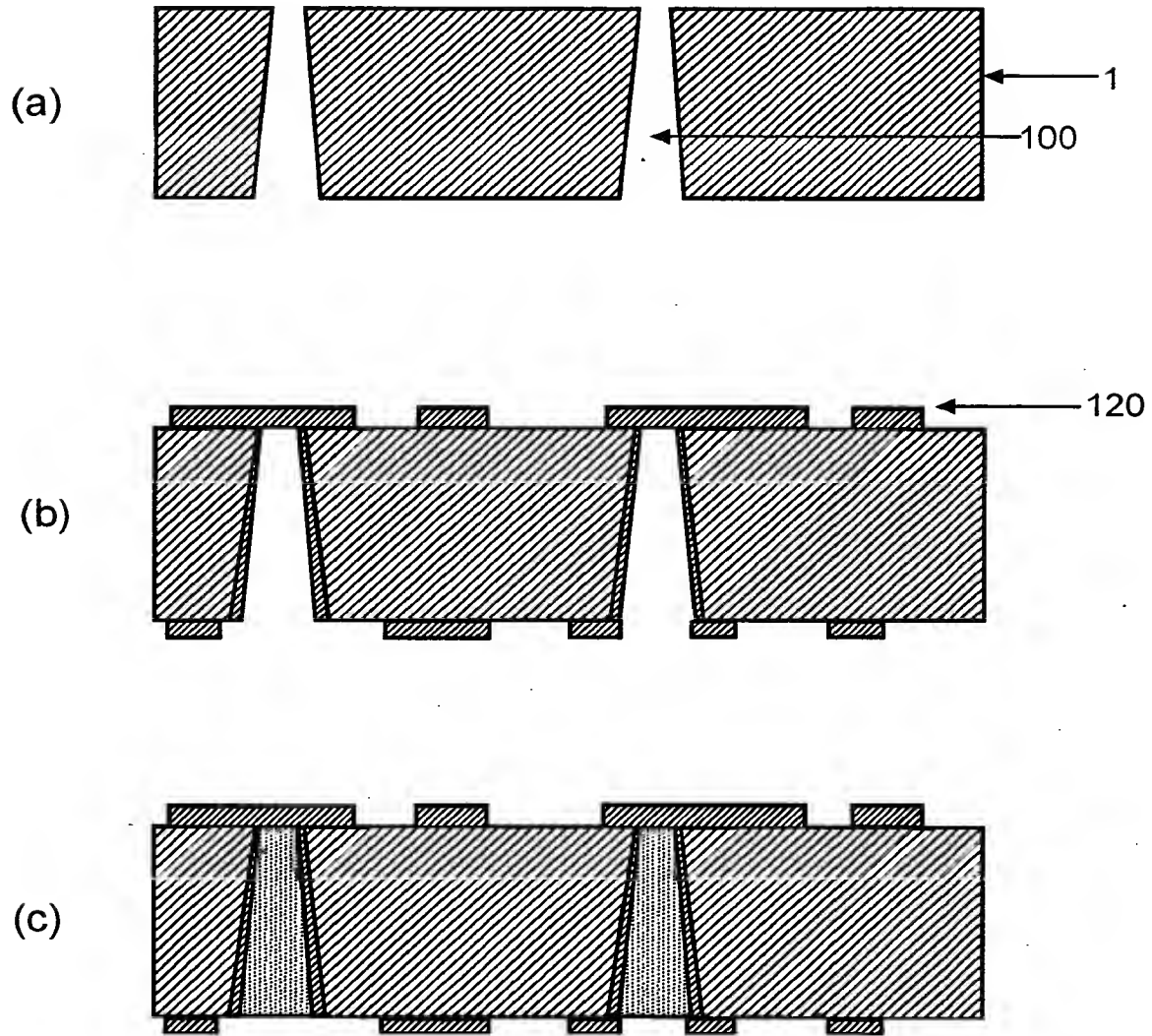
**THE UNIVERSITY OF CHICAGO**



[illegible]

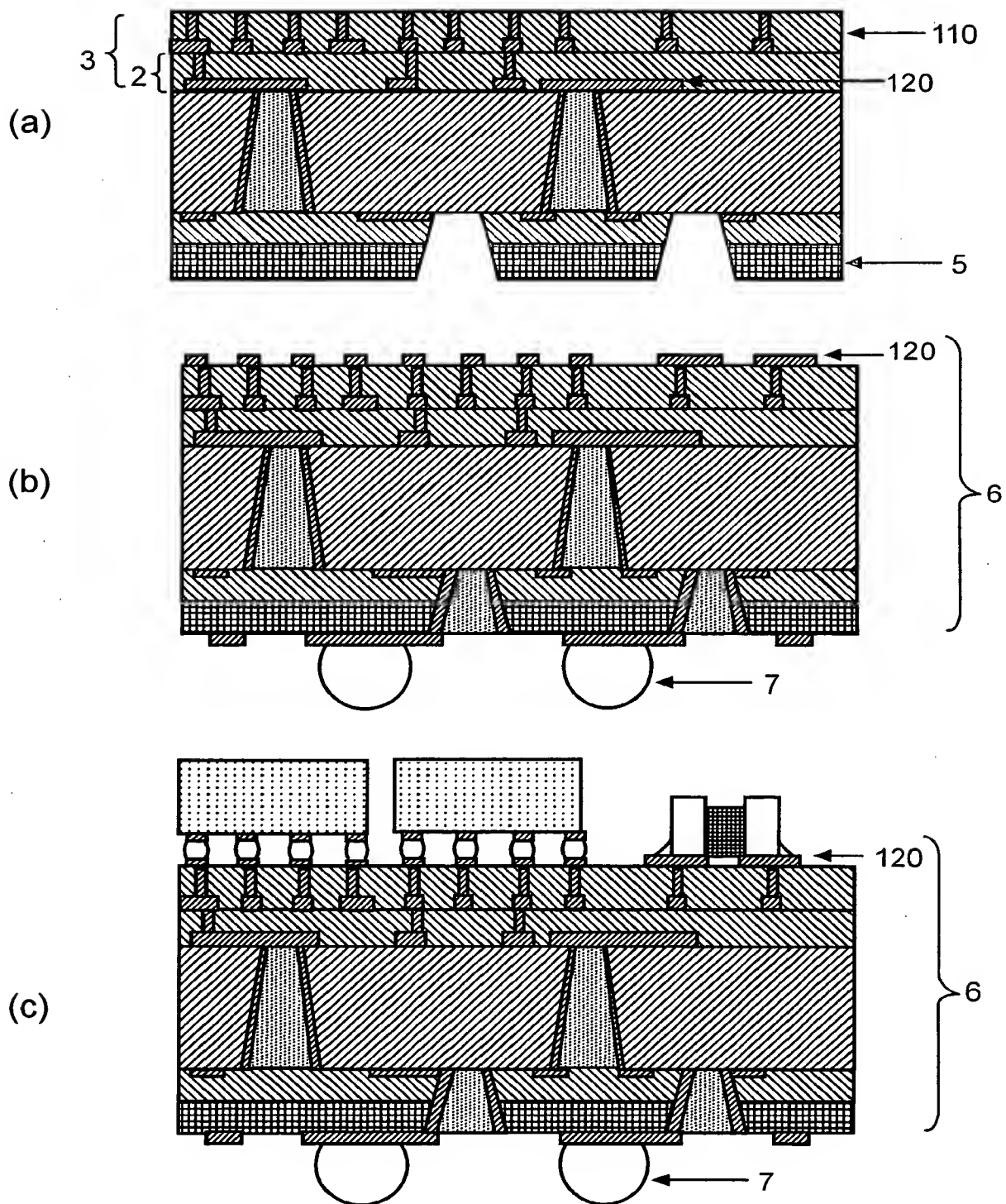
0.1mm

FIG.27

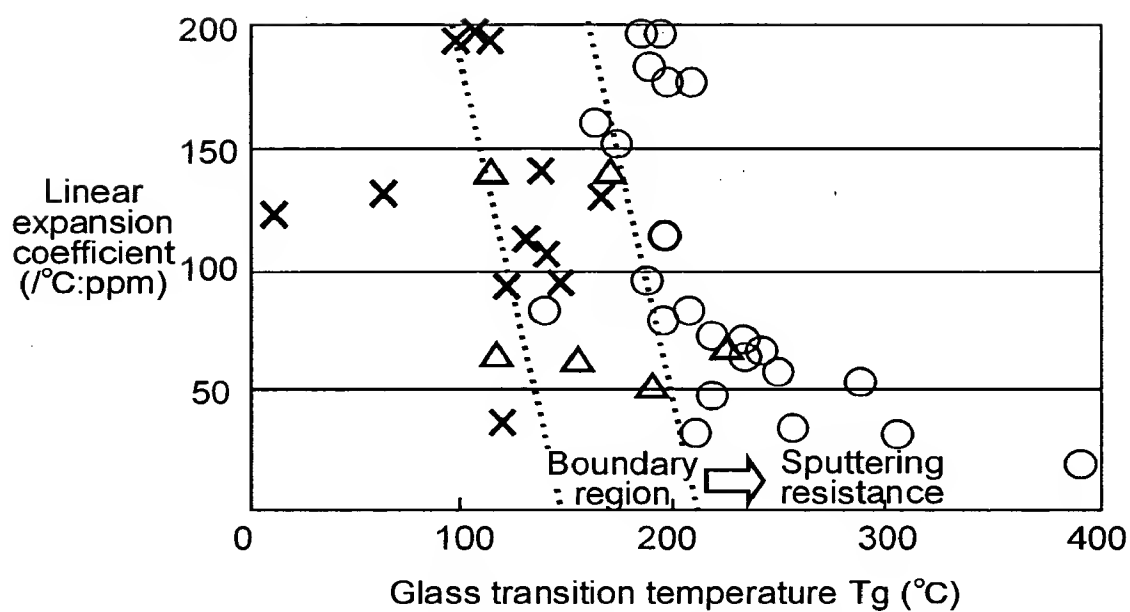


09997475-14004  
FOOTPRINT 52746660

# FIG.28



# FIG.29



Physical property value and sputtering resistance  
of the material for stress relaxation layer  
(X: cracks generated, Δ: wrinkles generated, O: no abnormality)

**FIG.30**

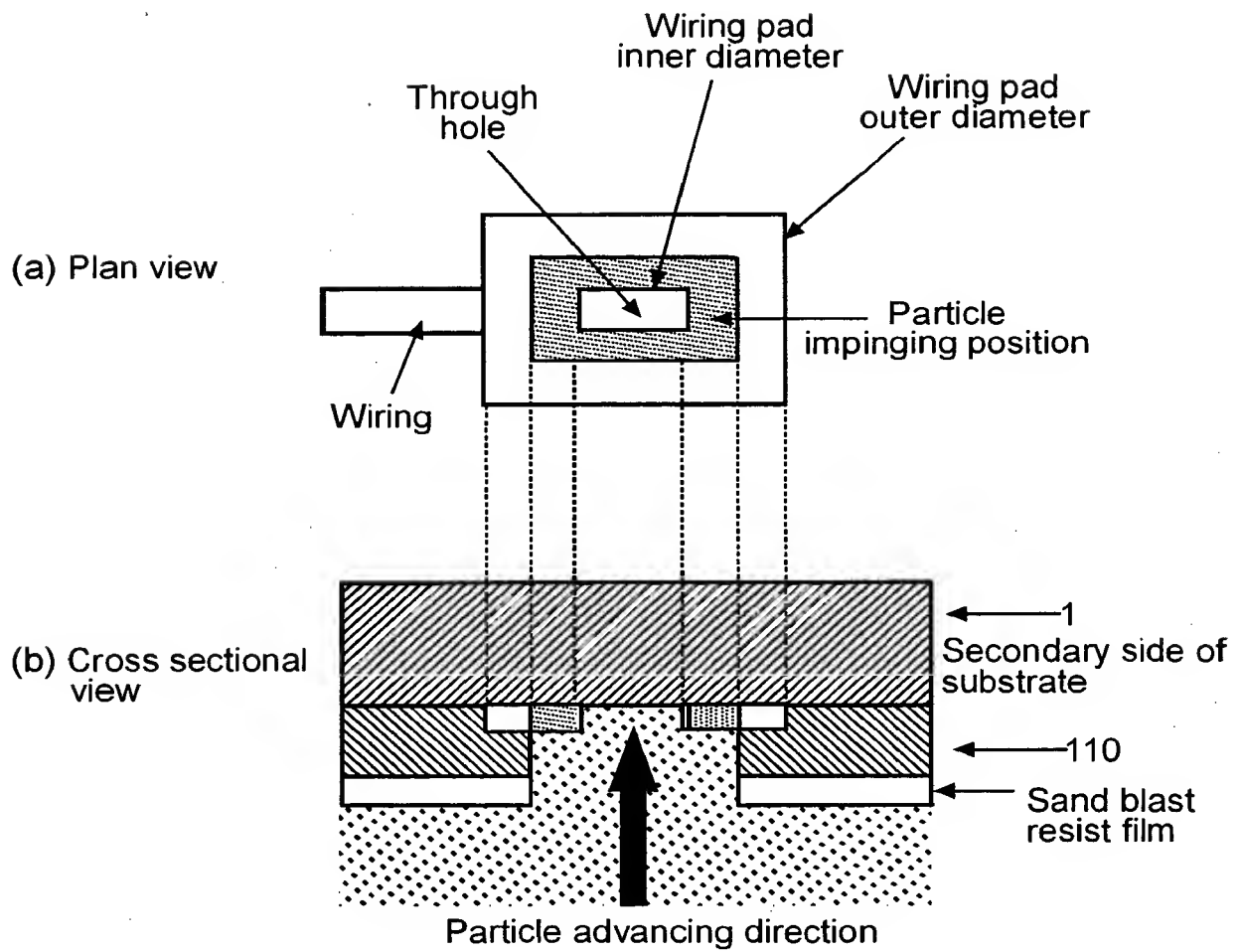


FIG.31

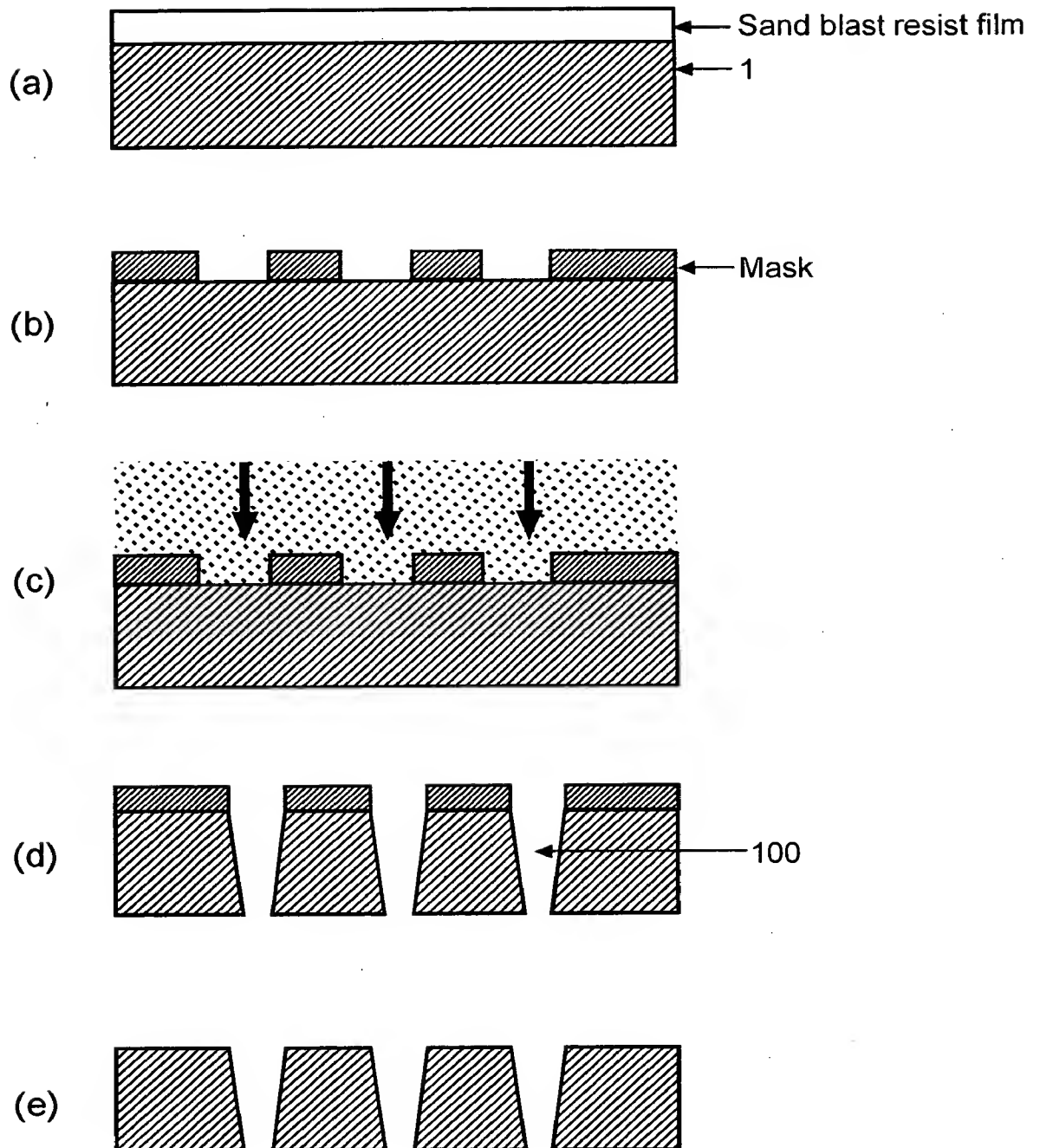


FIG.32

